

LIST OF CLAIMS

1 - 5. (Cancelled)

6. (Currently Amended) A method for producing the transgenic pearl producing mollusk according to claim 10, comprising microinjecting into gonad of a male and/or a female ~~of~~ mollusk a recombinant vector ~~into which a desired~~ comprising a foreign gene related to color ~~to be introduced~~; crossing said male and female to produce individuals of first generation; and selecting therefrom (an) individual(s) which express(es) said ~~desired~~ foreign gene.

7. (Currently Amended) The method according to claim 6, further comprising crossing male and female of said selected individuals of first generation, which express said foreign gene to produce individuals of second generation, and selecting therefrom (an) individual(s) which express(es) said ~~desired~~ foreign gene.

8. (Currently Amended) A method for producing the transgenic pearl producing mollusk according to claim 11, comprising introducing into unfertilized eggs, fertilized eggs or embryos of a mollusk to be transformed a recombinant vector ~~into which~~ comprising a nucleic acid including a promoter having a promoter activity in said mollusk and said ~~desired~~ foreign gene is located

at a downstream region of said promoter and functionally linked to said promoter ~~is inserted~~; developing said unfertilized eggs, fertilized eggs or embryos to individuals; and selecting therefrom (an) individual(s) which express(es) said ~~desired~~ foreign gene.

9. (Currently Amended) A method for producing the transgenic pearl producing mollusk according to claim 10 or 11, comprising microinjecting a recombinant vector which comprises a foreign gene related to color into gonad of a male and/or a female of mollusk ~~a recombinant vector into which a desired foreign gene to be introduced~~; crossing said male and female to produce individuals of first generation; and selecting therefrom an individual which expresses said ~~desired~~ foreign gene.

10. (Currently Amended) A transgenic pearl producing mollusk whose genome comprises a nucleic acid construct comprising a promoter operably linked to a foreign gene encoding pigments or encoding ~~substances which relate to pigment formation~~ a foreign gene encoding enzyme with catalyze reactions forming pigments, wherein expression of the nucleic acid construct in the mollusk results in emission of fluorescence in mantle tissue of the mollusk.

11. (Currently Amended) A transgenic pearl producing mollusk comprising a recombinant vector comprising a nucleic acid construct and a promoter that is operably linked to a foreign gene encoding pigment protein or ~~encoding substitutes which relate to pigment formation~~ a foreign gene encoding enzyme with catalyze reactions forming pigments or encoding pigment genes themselves, wherein expression of the nucleic acid construct in the mollusk results in emission of fluorescence in mantle tissue of the mollusk.

12. (Currently Amended) The transgenic pearl producing mollusk of claim 10 or 11, where the foreign gene encodes Green Fluorescent Protein (GFP).

13. (Currently Amended) The transgenic pearl producing mollusk of claim 10 or 11, wherein the promoter ~~shows~~ has promoter activity in mollusk cells and is located at a upstream region of the foreign gene.

14. (Currently Amended) The transgenic pearl producing mollusk of claim 10 or 11, wherein the foreign gene is fused with another gene selected from the group consisting of ~~naereous layer protein gene,~~ prism layer ~~skeleton~~ protein gene and ~~calcium carbonate crystallizing enzyme~~ mantel protein gene.

15. (Currently Amended) The transgenic pearl producing mollusk of claim 11, wherein the vector is an animal cell vector.

16. (Currently Amended) The transgenic pearl producing mollusk of claim 15, wherein the animal cell vector is an adenovirus vector or a retrovirus vector.

17. (Currently Amended) The transgenic pearl producing mollusk of claim 10 or 11, wherein the promoter is selected from the group consisting of ~~actin gene promoter and heat shock gene promoter~~ adenoviral promoter and prism protein promoter.